

UNCLASSIFIED

CLASSIFICATION: Unclassified

EXHIBIT R-2, RDT&E Budget Item Justification						DATE: February 2004	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION BA-5				R-1 ITEM NOMENCLATURE 0604366N/STANDARD MISSILE IMPROVEMENTS			
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost	24.244	81.014	99.022	187.295	190.002	211.855	205.762
0439/Standard Missile Improvements	15.484	42.241	49.792	22.247	0.245	0.195	0.184
3092/Standard Missile 6 Program	8.760	38.773	49.230	165.048	189.757	211.660	205.578
<p>Defense Emergency Response Funds (DERF) Funds: No DERF funds are associated with this program/project.</p> <p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>"...The following capabilities are required: "... (Effective weapon systems that will deliver timely lethal firepower to the threat systems and supporting structures in hostile territory, provide in-flight destruction capabilities over the total flight path, and provide continuous protection to forward deployed maneuver forces as well as theater rear assets." -Mission Need Statement for Joint Theater Air and Missile Defense, May 1999 "Projecting and sustaining U.S. forces in distant anti-access or area-denial environments and defeating anti-access and area-denial threats; "Defenses against known and emerging threats must be developed.</p>							

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Exhibit R-2, RDTEN Budget Item Justification
(Exhibit R-2, page 1 of 20)

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EXHIBIT R-2, RDT&E Budget Item Justification		DATE: February 2004
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /BA-5	R-1 ITEM NOMENCLATURE 0604366N/STANDARD MISSILE IMPROVEMENTS	
<p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>“The United States must retain the capability to send well-armed and logistically supported forces to critical points around the globe, even in the face of enemy opposition</p> <p>“The QDR emphasizes the need for new investments that would enable U.S. forces to defeat anti-access and area-denial threats and to operate effectively in critical areas.”</p> <p>- Quadrennial Defense Review Report, September 30, 2001</p> <p>Standard Missile-2 (SM-2) Block IIIB is the Navy's premier Anti-Air Warfare (AAW) missile, providing both area air defense for the fleet and self defense for individual Aegis CGs and DDGs, as required by the Joint TAMd MNS, DPG, QDR, and Ship Class AAW Self Defense Capstone Requirements Document. Minor agility, fuzing, and computer modifications to SM-2 Block IIIB are under development to restore performance in the near term against a specific existing proliferated ASCM threat. Continuous analysis of missile capabilities vs. ever-evolving and proliferating aircraft and anti-ship cruise missiles and long-range planning are required to keep pace with the threat. A separate, classified, advanced technology effort began to transition in FY03, and in FY04 a new program will start to develop a family of advanced surface missile systems. These new missile systems will leverage the Navy investment in the Aegis Weapon System, CEC, and airborne early warning systems, which will be upgraded in concert with missile development to support a fully integrated extended range detect-to-engage capability. Funding for those upgrades are also included in this line. Together, this family of systems will provide the air superiority and the umbrella of protection against the full spectrum of projected future cruise missile (anti-ship and land attack) and manned aircraft threats discussed in the Joint TAMd MNS, DPG, QDR, and TAMd Capstone Requirements Document.</p>		

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Exhibit R-2, RDTEN Budget Item Justification
(Exhibit R-2, page 2 of 20)

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2004	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS			PROJECT NUMBER AND NAME 0439 Standard Missile Improvements			
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost		15.484	42.241	49.792	22.247	0.245	0.195	0.184
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Minor modifications to SM-2 Block IIIB will restore performance in the near term against a specific existing proliferated ASCM threat. These include modifications to the MK45 Target Detection Device (TDD) to improve the lethal radius at low altitudes, guidance software to improve missile agility, and a new digital signal processor. Funding for the MK 45 Mod 14 TDD advanced technology development has been provided under Conventional Munitions, P.E. 0603609N, Project 1821, and the complementary engineering and transition to production efforts is funded in this line. Continuous analysis of missile capabilities vs. evolving and proliferating aircraft and anti-ship cruise missiles and long-range planning are required to keep pace with the threat. A separate, classified, advanced technology effort began to transition in FY03, and in FY04 a new program will start to develop a family of advanced surface missile systems. The Aegis Weapon System, CEC, and airborne early warning systems also will be upgraded in concert with missile development to support a fully integrated extended range detect-to-engage capability.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2004													
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROJECT NUMBER AND NAME 0439 Standard Missile Improvements													
B. Accomplishments/Planned Program															
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></th><th style="width: 20%;">FY 03</th><th style="width: 20%;">FY 04</th><th style="width: 30%;">FY 05</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td>0.751</td><td>4.811</td><td>1.868</td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td></tr></tbody></table>					FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost	0.751	4.811	1.868	RDT&E Articles Quantity			
	FY 03	FY 04	FY 05												
Accomplishments/Effort/Subtotal Cost	0.751	4.811	1.868												
RDT&E Articles Quantity															
<div style="display: flex; justify-content: space-between;"><div>SM-2 Block IIIB MK 45 Mod 14 TDD.</div><div>FY 03: Round level integration engineering and transition to production FY 04: Transition to production and flight testing FY 05: Completion of flight testing and analysis</div></div>															
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></th><th style="width: 20%;">FY 03</th><th style="width: 20%;">FY 04</th><th style="width: 30%;">FY 05</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td>0.000</td><td>0.145</td><td>0.396</td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td></tr></tbody></table>					FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost	0.000	0.145	0.396	RDT&E Articles Quantity			
	FY 03	FY 04	FY 05												
Accomplishments/Effort/Subtotal Cost	0.000	0.145	0.396												
RDT&E Articles Quantity															
Failure analyses, technology assessments, analyses of missile capability vs. threat, and long-range planning to keep pace with the evolving and proliferating threat.															
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></th><th style="width: 20%;">FY 03</th><th style="width: 20%;">FY 04</th><th style="width: 30%;">FY 05</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td>14.733</td><td>31.489</td><td>39.082</td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td></tr></tbody></table>					FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost	14.733	31.489	39.082	RDT&E Articles Quantity			
	FY 03	FY 04	FY 05												
Accomplishments/Effort/Subtotal Cost	14.733	31.489	39.082												
RDT&E Articles Quantity															
Advanced Surface Missile Demonstration. FY03: Transition advanced technology to Advanced Surface Missile System FY04 and FY05: Continue transition of advanced technology, program definition, risk reduction, and preparation for feasibility demo															

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Exhibit R-2a, RDTEN Project Justification
(Exhibit R-2a, page 4 of 20)

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2004	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROJECT NUMBER AND NAME 0439 Standard Missile Improvements	
B. Accomplishments/Planned Program (Cont.)			
	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost		5.796	8.446
RDT&E Articles Quantity			
<div>Replacement of obsolete digital signal processor for SM-2 Block IIIB. FY 04: Requirements definition and preliminary design. FY 05: Round level integration, Critical Design Review.</div>			
	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost			
RDT&E Articles Quantity			
	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost			
RDT&E Articles Quantity			

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Exhibit R-2a, RDTEN Project Justification
(Exhibit R-2a, page 5 of 20)

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2004
APPROPRIATION/BUDGET ACTIVITY RDTE, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS	PROJECT NUMBER AND NAME 0439 Standard Missile Improvements

C. PROGRAM CHANGE SUMMARY:

	FY 2003	FY 2004	FY 2005
Funding:			
Previous President's Budget: (FY 04 Pres Controls)	15.929	42.717	50.683
Current BES/President's Budget: (FY05 Pres Controls)	15.484	42.241	49.792
Total Adjustments	-0.445	-0.476	-0.891
Summary of Adjustments			
Reprogrammings	-0.155		
SBIR/STTR Transfer	-0.249		
MANPOWER			-0.691
Economic Assumptions		-0.476	-0.030
Inflation			-0.162
BSO adjustments	-0.041		
WCF Rates			-0.008
Subtotal	-0.445	-0.476	-0.891

Schedule:

Not Applicable

Technical:

Not Applicable

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Exhibit R-2a, RD TEN Project Justification
(Exhibit R-2a, page 7 of 20)

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Exhibit R-2a, RD TEN Project Justification
(Exhibit R-2a, page 8 of 20)

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Exhibit R-2a, RDTEN Project Justification
(Exhibit R-2a, page 9 of 20)

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Exhibit R-3 Cost Analysis (page 2)										DATE: February 2004		
APPROPRIATION/BUDGET ACTIVITY RDTE, N / BA-5			PROGRAM ELEMENT 0604366N/STANDARD MISSILE IMPROVEMENTS				PROJECT NUMBER AND NAME 0439 Standard Missile Improvements					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	NSWC Port Hueneme	0.000	0.145	10/02	0.550	11/03	0.800	11/04		Continuing	Continuing
	WX	WSMR	0.000			2.700	11/03	1.600	11/04		Continuing	Continuing
Operational Test & Evaluation											0.000	
Live Fire Test & Evaluation											0.000	
Test Assets											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal T&E			0.000	0.145		3.250		2.400		0.000	Continuing	
Remarks:												
Contractor Engineering Support	C/CPAF	various	0.000	0.082	10/02	0.350	11/03	0.357	11/04		Continuing	Continuing
Government Engineering Support											0.000	
Program Management Support	C/CPAF	various	0.000	1.000	10/02	0.350	11/03	0.350	11/04		Continuing	Continuing
Travel				0.028		0.050		0.150			Continuing	Continuing
Transportation											0.000	
SBIR Assessment											0.000	
Subtotal Management			0.000	1.110		0.750		0.857		0.000	Continuing	
Remarks:												
Total Cost			794.279	15.484		42.241		49.792		0.000	Continuing	
Remarks:												

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Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 10 of 20)

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EXHIBIT R4, Schedule Profile																								DATE:				February 2004				
APPROPRIATION/BUDGET ACTIVITY										PROGRAM ELEMENT NUMBER AND NAME										PROJECT NUMBER AND NAME												
RDT&E, N / BA-5										0604366N/STANDARD MISSILE IMPROVEMENTS										0439 Standard Missile Improvements												
Fiscal Year	2002				2003				2004				2005				2006				2007				2008				2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Acquisition Milestones																																
Prototype Phase																																
Radar System Development																																
EDM Radar Delivery																																
Software 1XXSW Delivery 2XXSW Delivery																																
Test & Evaluation Milestones																																
Development Test																																
Operational Test																																
Production Milestones																																
LRIP I FY 05																																
LRIP II FY 06																																
FRP FY 07																																
Deliveries																																

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* Not required for Budget Activities 1, 2, 3, and 6

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Exhibit R-3, Project Cost Analysis
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Exhibit R-4a, Schedule Detail						DATE:		
NOT APPLICABLE						February 2004		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT				PROJECT NUMBER AND NAME		
RDT&BA-5		0604366N/STANDARD MISSILE IMPROVEMENTS				0439 Standard Missile Improvements		
Schedule Profile		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Prototype Phase								
System Design Review (SDR)								
Milestone II (MSII)								
Contract Preparation								
Software Specification Review (SSR)								
Preliminary Design Review (PDR)								
System Development								
Critical Design Review (CDR)								
Quality Design and Build								
Test Readiness Review (TRR)								
Developmental Testing (DT-IIA)								
Eng Dev Model (EDM) Radar Delivery - Lab								
Software Delivery 1XXSW								
Preproduction Readiness Review (PRR)								
EDM Radar Delivery - Flt Related								
Milestone C (MS C)								
Operational Testing (OT-IIA)								
Start Low-Rate Initial Production I (LRIP I)								
Software Delivery 2XXSW								
Developmental Testing (DT-IIB1)								
Developmental Testing (DT-IIB2)								
Start Low-Rate Initial Production II								
Operational Testing (OT-IIB)								
Developmental Testing (DT-IIC)								
Functional Configuration Audit (FCA)								
Low-Rate Initial Production I Delivery								
Technical Evaluation (TECHEVAL)								
Physical Configuration Audit								
Operational Evaluation (OT-IIC) (OPEVAL)								
Low-Rate Initial Production II Delivery								
IOC								
Full Rate Production (FRP) Decision								
Full Rate Production Start								
First Deployment								

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Exhibit R-3, Project Cost Analysis
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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2004	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS			PROJECT NUMBER AND NAME 3092/SM-6			
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost		8.760	38.773	49.230	165.048	189.757	211.660	205.578
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This project addresses the Navy's need for extended range shipboard air defense missiles. It leverages existing missile technology as well as classified, advanced technology, and it takes advantage of the Navy's investment in the Aegis Weapon System, CEC, and airborne early warning systems. This missile will provide an extended range engagement capability to provide the air superiority and the umbrella of protection for joint U.S. forces and allies against the full spectrum of projected future cruise missile (anti-ship and land attack) and manned aircraft threats discussed in the Joint TAMD MNS, DPG, QDR, and TAMD Capstone Requirements Document.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2004													
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROJECT NUMBER AND NAME 3092/SM-6													
B. Accomplishments/Planned Program															
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></th><th style="width: 15%;">FY 03</th><th style="width: 15%;">FY 04</th><th style="width: 15%;">FY 05</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td></td><td>6.400</td><td>10.100</td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td></tr></tbody></table>					FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost		6.400	10.100	RDT&E Articles Quantity			
	FY 03	FY 04	FY 05												
Accomplishments/Effort/Subtotal Cost		6.400	10.100												
RDT&E Articles Quantity															
Aegis Weapon System and MK 41 Vertical Launch System integration.															
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></th><th style="width: 15%;">FY 03</th><th style="width: 15%;">FY 04</th><th style="width: 15%;">FY 05</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td>8.760</td><td>32.373</td><td>39.130</td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td></tr></tbody></table>					FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost	8.760	32.373	39.130	RDT&E Articles Quantity			
	FY 03	FY 04	FY 05												
Accomplishments/Effort/Subtotal Cost	8.760	32.373	39.130												
RDT&E Articles Quantity															
Missile development. FY 03: Planning, requirements definition, trade studies. FY 04: Continue program definition, risk reduction, preliminary design. FY 05: Preliminary Design Review.															
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></th><th style="width: 15%;">FY 03</th><th style="width: 15%;">FY 04</th><th style="width: 15%;">FY 05</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td></td><td></td><td></td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td></tr></tbody></table>					FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost				RDT&E Articles Quantity			
	FY 03	FY 04	FY 05												
Accomplishments/Effort/Subtotal Cost															
RDT&E Articles Quantity															

Exhibit R-2a, RDTEN Project Justification

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2004	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS	PROJECT NUMBER AND NAME 3092/SM-6	
C. PROGRAM CHANGE SUMMARY:			
Funding:	FY 2003	FY 2004	FY 2005
Previous President's Budget: (FY 04 Pres Controls)	4.890	34.210	50.000
Current BES/President's Budget: (FY05 Pres Controls)	8.760	38.773	49.230
Total Adjustments	3.870	4.563	-0.770
Summary of Adjustments			
Extended Range Anti-Air Warfare		5.000	
Minor Programmatic Adjustments		-0.437	-0.770
FY03 SBIR	-0.129		
Reprogrammings	3.999		
Subtotal	3.870	4.563	-0.770
Schedule:			
TBD.			
Technical:			
TBD.			

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Exhibit R-2a, RDTEEN Project Justification
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DATE: **February 2004**

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2004				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-5			0604366N/STANDARD MISSILE IMPROVEMENTS			3092/SM-6						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development											0.000	
Ancillary Hardware Development											0.000	
Component Development											0.000	
Design and Analysis	PR	RAYTHEON	0.000	3.500	06/03							
	PR	JHU/APL, Laurel MD	0.000	0.100	10/02	1.750	11/03	2.000	11/04	Continuing	Continuing	
	PR	MIT Lincoln Lab, Lexington, MA	0.000			0.100	11/03	0.100	11/04	Continuing	Continuing	
	WX	NAWC WD China Lake, CA	0.000			0.700	11/03	0.700	11/04	Continuing	Continuing	
	WX	NSWC Dahlgren, VA	0.000	0.050	10/02	0.100	11/03	0.100	11/04	Continuing	Continuing	
	WX	NSWC Indian Head, MD	0.000	0.038	10/02	0.070	11/03	0.052	11/04	Continuing	Continuing	
	TBD	Contractor TBD	0.000			24.263	11/03	28.530	11/04	Continuing	Continuing	
	WX	NSWC Port Hueneme, CA	0.000			0.150	11/03	0.150	11/04	Continuing	Continuing	
	WX	NWS Earle, NJ	0.000			0.050	11/03	0.052	11/04	Continuing	Continuing	
	WX	NSWC Crane, IN	0.000			0.050	11/03	0.051	11/04	Continuing	Continuing	
	MP	JSPO/EGLIN	0.000	1.148	07/03							
	PR	LOCKHEED MARTIN	0.000	3.854	06/03							
											0.000	
Ship Integration	WX	PMS400	0.000	0.070		4.900	11/03	7.100	11/04	Continuing	Continuing	
	WX	NSWC Dahlgren	0.000			1.500	11/03	3.000	11/04	Continuing	Continuing	
Ship Suitability											0.000	
Systems Engineering											0.000	
Training Development											0.000	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Product Development			0.000	8.760		33.633		41.835		Continuing	Continuing	
Remarks:												
Development Support	WR	various	0.000		10/02	4.180	11/03	6.050	11/04	Continuing	Continuing	
Software Development											0.000	
Training Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Support			0.000	0.000		4.180		6.050		Continuing	Continuing	

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Exhibit R-3 Cost Analysis (page 2)										DATE: February 2004		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-5			0604366N/STANDARD MISSILE IMPROVEMENTS			3092/SM-6						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	NSWC Port Hueneme, CA	0.000			0.200	11/03	0.225	11/04	Continuing	Continuing	
	WX	White Sands Missile Range,	0.000			0.150	11/03	0.500	11/04	Continuing	Continuing	
											0.000	
Operational Test & Evaluation											0.000	
Live Fire Test & Evaluation											0.000	
Test Assets											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal T&E			0.000	0.000		0.350		0.725		Continuing	Continuing	
Remarks:												
Contractor Engineering Support	CPAF	various	0.000			0.600	11/03	0.600	11/04	Continuing	Continuing	
Government Engineering Support											0.000	
Program Management Support											0.000	
Travel						0.010		0.020		Continuing	Continuing	
Labor (Research Personnel)											0.000	
SBIR Assessment											0.000	
Subtotal Management			0.000	0.000		0.610		0.620		Continuing	Continuing	
Remarks:												
Total Cost			0.000	8.760		38.773		49.230		Continuing	Continuing	
Remarks:												

R-1 SHOPPING LIST - Item No. 106

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Exhibit R-2a, RDTEN Project Justification
(Exhibit R-2a, page 18 of 20)

UNCLASSIFIED

CLASSIFICATION: Unclassified

EXHIBIT R4, Schedule Profile																								DATE:								
TBD																								February 2004								
APPROPRIATION/BUDGET ACTIVITY										PROGRAM ELEMENT NUMBER AND NAME										PROJECT NUMBER AND NAME												
RDT&E, N / BA-5										0604366N/STANDARD MISSILE IMPROVEMENTS										3092/SM-6												
Fiscal Year	2002				2003				2004				2005				2006				2007				2008				2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Acquisition Milestones																																
Prototype Phase																																
Radar System Development																																
EDM Radar Delivery																																
Software 1XXSW Delivery 2XXSW Delivery																																
Test & Evaluation Milestones																																
Development Test																																
Operational Test																																
Production Milestones																																
LRIP I FY 05																																
LRIP II FY 06																																
FRP FY 07																																
Deliveries																																

R-1 SHOPPING LIST - Item No. 106

* Not required for Budget Activities 1, 2, 3, and 6

UNCLASSIFIED

Exhibit R-4, Schedule Profile
(Exhibit R-4, page 19 of 20)

UNCLASSIFIED

CLASSIFICATION: Unclassified

Exhibit R-4a, Schedule Detail						DATE:		
TBD						February 2004		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT			PROJECT NUMBER AND NAME			
RDT&BA-5		0604366N/STANDARD MISSILE IMPROVEMENTS			3092/SM-6			
Schedule Profile		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Prototype Phase								
System Design Review (SDR)								
Milestone II (MSII)								
Contract Preparation								
Software Specification Review (SSR)								
Preliminary Design Review (PDR)								
System Development								
Critical Design Review (CDR)								
Quality Design and Build								
Test Readiness Review (TRR)								
Developmental Testing (DT-IIA)								
Eng Dev Model (EDM) Radar Delivery - Lab								
Software Delivery 1XXSW								
Preproduction Readiness Review (PRR)								
EDM Radar Delivery - Flt Related								
Milestone C (MS C)								
Operational Testing (OT-IIA)								
Start Low-Rate Initial Production I (LRIP I)								
Software Delivery 2XXSW								
Developmental Testing (DT-IIB1)								
Developmental Testing (DT-IIB2)								
Start Low-Rate Initial Production II								
Operational Testing (OT-IIB)								
Developmental Testing (DT-IIC)								
Functional Configuration Audit (FCA)								
Low-Rate Initial Production I Delivery								
Technical Evaluation (TECHEVAL)								
Physical Configuration Audit								
Operational Evaluation (OT-IIC) (OPEVAL)								
Low-Rate Initail Production II Delivery								
IOC								
Full Rate Production (FRP) Decision								
Full Rate Production Start								
First Deployment								

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Exhibit R-4, Schedule Profile
(Exhibit R-4, page 20 of 20)